Pavaruth Pengcharoen

Senior Frontend Developer

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Summary

Senior Frontend Developer with 8+ years of experience in designing scalable web applications and leading teams to deliver impactful solutions. Skilled in leveraging modern technologies to tackle complex challenges and enhance user experiences.

Education

Bachelor of Science
Rangsit University
Jan 2016 - Jan 2020

Technical Skills

JavaScript, TypeScript, React, Next.js, Node.js, AWS, Git, Docker, MySQL, REST API, PHP, MongoDB, CI/CD (Jenkins, GitHub Actions), Vue.js, Redis, TailwindCSS, MUI, Framer Motion, JWT (Authentication), Python, Express.js, Vite, Shadcn/UI, Vite, PostgreSQL, Socket.io, Google Analytics & GTM, Ant Design, Microservices

Soft Skills

- Collaboration
- Problem-solving
- Communication
- Time management
- Result-oriented

Additional Skills

- Public Speaking
- Writing
- Research

Work Experience

Inspekt AI *Jan 2025 - Present*
Senior Frontend Developer

• Built an interactive thermal spot inspection tool using DJI SDK, enabling users to click on R-JPEG thermal images to retrieve pixel-level temperature data. This included integrating raw binary data visualization, conditional rendering, and client-side parsing of temperature arrays.

• Redesigned the label management system to eliminate confusion during bulk label assignment across defects. Implemented new UX logic and collaborated with design on Figma prototypes to separate shared and private label behaviors, enhancing clarity and user control.

• Enhanced the accuracy of 3D defect visualization by implementing logic to map defects to their correct floor based on calculated altitudes using reference points and bounding box data, while ensuring backward compatibility when floor metadata is missing.

• Led the frontend revamp of the Pilot Viewer, developing features such as image upload transactions, duplicate image detection (via file name + drone serial), metadata inspection, bulk editing tools, and label scoping. This provided pilots with greater control and visibility during the inspection process.

• Developed robust pre-upload validation workflows, including Flight Mission Plan and Pre-Flight Checklist acknowledgment with automated email confirmations, daily reminder systems, and structured form logic to ensure compliance before data submission.

• Implemented advanced QA and analytics features such as automatic flight time calculation based on timestamp gaps, missing image pair detection with detailed alert banners, and real-time RTK, resolution, and image-type statistics for each upload session.

EPAM Systems *Dec 2023 - Dec 2024*
Senior Software Engineer

• Developed internal tools using React.js, TypeScript, JOY UI, and Figma to streamline business operations and improve environmental impact insights.

• Created a Next.js web application for manufacturing processes, improving resource efficiency and cost estimations.

• Contributed to the development of an internal big data analysis tool for reservoir engineers, enabling optimization of oil production through data-driven insights.

Ogilvy   *Apr 2022 - Nov 2023*

Senior Software Developer

• Led the development of interactive LED display software using React, TailwindCSS, and react-spring, enhancing client engagement by creating dynamic, responsive displays.

• Integrated facial recognition using TensorFlow and Face API, enabling personalized user interactions and targeted content delivery in real-time.

• Developed targeted advertising software using OpenCV for real-time object recognition and audience analysis, improving advertisement effectiveness.

• Managed a team of 5 developers, delivering projects for top-tier clients such as Nestlé, MILO, Krungthai Bank, and more, ensuring on-time, high-quality delivery.

• Implemented CI/CD pipelines using GitHub Actions, streamlining deployments and reducing deployment time by 40%.

• Developed internal automation tools using Node.js, Axios, and Puppeteer, boosting productivity by automating 20+ operational tasks.

• Delivered presentations on a range of technical topics, including React, TensorFlow, and CI/CD best practices, to enhance team knowledge and foster a collaborative learning environment.

Ogilvy   *Jan 2021 - Mar 2022*

Software Developer

• Developed key e-commerce features for NEO Corporate using PHP, Laravel, and Amazon services, enhancing security and reducing bounce rates.

• Optimized infrastructure for Pruksa Real Estate with AWS services, improving performance and cost efficiency.

• Created scalable data-flow diagrams and developed user-friendly frontend and API using JavaScript, Node.js, and Next.js.

• Built and optimized websites for clients like BG Glass, Krungthai Bank, and TTB Bank, ensuring seamless user experiences and high traffic performance.

• Secured and debugged WordPress sites for clients, ensuring enhanced security and trust.

• Led server migrations for Singha and Boonrawd Brewery, improving internal security and operational efficiency.

• Maintained and optimized Nestlé Thailand's websites, ensuring smooth performance with bug fixes and enhancements.

• Implemented Google Tag Manager across sites to improve tracking and analytics for data-driven marketing.

• Developed a custom award listing feature for PETA's campaign to boost user engagement.

• Set up secure intranet systems for MG Cars Thailand, enhancing data privacy and access control.

Software Developer

• Designed branding assets and digital materials: Created the company's logo, portfolio, and advertising content using Adobe Photoshop, Illustrator, and XD.

• Developed a CMS for the company's blog: Built using HTML, SCSS, JavaScript, jQuery, Bootstrap, PHP, MySQL, and REST APIs for dynamic and responsive content management.

• Created a website for a real estate agent: Designed the website and logo with Adobe Photoshop, Illustrator, and XD, built a MySQL database and REST API using PHP, and developed the frontend using HTML, SCSS, JavaScript, jQuery, and Mapbox API for location-based features.

• Developed a university-grade management application: Utilized HTML, SCSS, JavaScript, jQuery, PHP, MySQL, and REST APIs for efficient grade management.

• Created an online quiz platform for kindergarten assessments: Developed the platform with HTML, CSS, JavaScript, and jQuery for interactive learning experiences.

• Developed the CMCC mobile web app: Built with Next.js, TailwindCSS, Ant Design, and Storybook.js, implemented a headless CMS with Strapi.js, and automated deployments with GitHub Actions.

Projects

Honda Website Revamp

https://www.honda.co.th

• Contributed to the frontend redevelopment of Honda Thailand's new website (contracted via Ogilvy) using Next.js, TypeScript, TailwindCSS, and Framer Motion.

• Built a high-performance, interactive Compare page showcasing side-by-side vehicle specifications with scroll-synced tables for mobile.

• Implemented a dropdown menu using React Portals to ensure proper layering and UX across components.

• Engineered smooth scroll-based animations with Framer Motion, such as directional fade-ins and car entrance effects to enhance visual storytelling.

• Ensured responsiveness, cross-device consistency, and seamless integration with the site's design system.

IADR-SEA | True Digital x Chula

https://www.iadr-sea.com

• Designed and developed a dentistry video conference web app, utilizing Adobe XD for UI/UX and React with Firebase for a responsive, real-time scheduling system.

• Integrated StreamYard API for seamless live video consultations, enhancing user accessibility and engagement.

• Implemented real-time chat with Socket.io and Node.js, enabling instant communication between patients and professionals.

• Automated deployment with CI/CD pipelines using Jenkins for consistent, timely updates.

• Deployed the application with Docker, Nginx, Certbot, and DigitalOcean, ensuring scalability, security, and reliable production performance.

Workout Diary Web App

https://voids.poompengcharoen.dev/workout-diary

• Developed the Workout Diary app to display Strava workout data with React and Framer Motion for smooth UI transitions.

• Implemented a dynamic year-based workout timeline.

• Utilized localStorage for caching API responses with custom cache expiry logic to optimize performance while ensuring data freshness.

• Integrated OAuth for secure Strava authentication and token management.

• Optimized data fetching with axios and dayjs for efficient retrieval and storage.

• Managed workout data aggregation on the server, combining metrics like duration, distance, and speed.

• Created an interactive, scrollable interface with custom scroll handling for both desktop and mobile.

• Added custom styling using React hooks to enhance visual design and user interaction.

Portfolio

https://www.poompengcharoen.dev

• Built a responsive portfolio using Next.js with server-side rendering for optimized performance.

• Designed with Tailwind CSS, enabling a utility-first approach and custom styling.

• Implemented interactive animations using Framer Motion for smooth UI transitions.

• Optimized app performance with Vercel Analytics, Vercel Speed Insights, and Sharp for image optimization.

• Integrated Axios for efficient API calls and Day.js for date handling.

• Developed interactive audio features using Howler.js.

• Used Swiper for touch-friendly carousels and sliders.

• Managed backend data with Vercel Postgres and deployed on Vercel for global hosting.

• Enabled PDF export with HTML2PDF.js.

• Ensured code quality with ESLint and Prettier for linting and formatting.

CU TIP Website

https://tip.grad.chula.ac.th

• Developed the frontend using Next.js (React), SCSS, and TailwindCSS for a modern and responsive user interface.

• Developed backend APIs and CMS with Strapi, enabling efficient content management and dynamic data fetching.

• Deployed the application using Docker, Nginx, and DigitalOcean, ensuring secure and scalable infrastructure.

• Optimized website performance and reliability through streamlined development and deployment processes.

Kiluth POS

https://kiluthpos.web.app

• Developed a POS web application using React and Firebase for seamless retail transactions and user interactions.

• Implemented real-time receipt printing with Socket.io and Node.js, optimizing in-store operations.

• Designed and developed an intuitive user interface using Adobe Experience Design for a user-friendly experience.

• Streamlined backend processes with Firebase for secure data storage and real-time synchronization.